

# TECHNICAL DATA SHEET

## PROMINENT NEUKLAD ULTRA SHIELD

Date: January 2025



THIS SUPERSEDES ALL PREVIOUS PUBLICATIONS

### PRODUCT DESCRIPTION

Prominent Neuklad Ultra Shield is a high quality fine textured low sheen exterior wall coating based on a blend of propriety pure acrylic binders and fillers that combine outstanding flexibility, elasticity with excellent hairline crack bridging and weather resistant properties.

### INTENDED USES:

1. Exterior final coat for new or existing facades (exterior walls).
2. Decorating and protection of correctly prepared and primed cement plaster, concrete, brickwork, fibre-cement, metal, and wood substrates.

### FEATURES:

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|---|--|
| 1. Low dirt retention                             |  |
| 2. Water-based                                    | Easy cleaning, low odour, and quick drying.  |
| 3. Hardwearing and washable                       |  |
| 4. Resist staining                                | Easy to clean and remove dirt and grime.   |
| 5. Good adhesion                                  | Can be applied to previously coated, sound surfaces.   |
| 6. UV Resistant                                   | Does not chalk on outside exposure – normal fading of colours can take place over time.                  |
| 7. Hairline crack bridging                        | Excellent flexibility to keep hairline cracks obliterated, when applied at less than 5m <sup>2</sup> /l. |
| 8. Water vapour permeable                         | Allows coating to breathe, allowing moisture to escape, but resist ingress of water into the coating.    |
| 9. Can be tinted to specific colour requirements. |  |

### PRODUCT INFORMATION:

Appearance:	Low Sheen with fine texture.
Colours:	White and tint bases to tint most of the colours on the tint system.
Solids:	± 60% by mass and ± 46% by volume.
Density:	± 1,29kg/l
Recommended Minimum WFT:	200µm per coat.
Recommended Minimum DFT:	2 coats at 90µm per coat.
Spreading rate:	3 - 5m <sup>2</sup> per litre per coat dependant on surface texture and porosity.
Viscosity at 23°C:	35 - 45 Poise.
Paint film warranty:	5 years on New Work. 10 years on a Redecoration projects for specified exterior applications.
Flash point:	Non-flammable.
Green Star Category:	Walls
Calculated max VOC:	16g/L maximum for White & Pastel tinting base.
Respecting the environment:	Dispose of excess product and containers in a responsible manner without harming the environment.

This product is manufactured under strict SABS ISO 9001:2015 quality standards.

### STORAGE:

Keep containers properly sealed.  
Store away from direct heat, sun and severe cold in a place with adequate ventilation.

### PACKAGING:

20Lt, White and Clear base

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### APPLICATION DETAILS:

Mixing:	Stir well before use with a flat paddle to an even consistency. Stir occasionally during use to ensure correct application results.		
Method:	Roller (High Loading long pile & Long woven pile) and brush.		
Thinning:	Ready to use. Do not dilute.		
Cleaning:	Remove as much of the product as possible from the application equipment before cleaning with water.		
Application Conditions:	<u>Surface Temperature</u> Min: 5°C Max: 50°C	<u>Ambient Temperature</u> Min: 5°C Max: 35°C	<u>Relative Humidity</u> Min: 10% Max: 80%
Drying time:	<u>Touch dry:</u> 30 minutes at 23°C	<u>Overcoating:</u> 4h at 23°C	<u>Full cure:</u> 7 days depending on weather conditions.
Requirements:	Note: higher temperatures will accelerate the drying times (approximately halved for every 10°C increase) whilst lower temperatures will retard the drying times (approximately doubled for every 10°C decrease). 2 coats minimum. Some bright/chromatic colours might require additional coats.		

### SURFACE PREPARATION

Surfaces must be sound, clean, and dry (moisture content below 15%) before painting.

Newly applied plaster needs to be left for 21 to 28 days or 1 week for every 5mm thickness of plaster. Undesirable weather conditions e.g. cold or wet weather conditions will result in extended curing period. Plaster sand to comply with SABS 1090 requirements. Plaster mix must have a minimum thickness of 10mm, free from soft and friable material and comply with SABS 0164-1 for strength (MPA).

New Work Exterior Facades:

1. Cement plaster sound with 15% or less moisture  
Apply one coat Prominent Damp Cure or Prominent Select Plaster Primer.
2. Cement plaster sound with 40% or less moisture  
Apply one coat Prominent Damp Cure diluted 10% with Mineral Turpentine. Allow 24 hours curing before applying 2<sup>nd</sup> coat Prominent Damp Cure undiluted with 24 hours curing time. Only proceed once the moisture contents proved to be 15% or less.
3. Fibre Cement  
Apply one coat Prominent Damp Cure or Prominent Select Plaster Primer.
4. Slightly friable plaster  
Apply 1 coat Prominent Surface Restorer and allow curing for 24 hours. Test adhesion of the Prominent Surface Restorer with a crosshatch masking tape test. If suspect apply a further coat of Prominent Surface Restorer. Repeat adhesion test. Only proceed if good results are achieved. Consult Prominent Technical department if adhesion test failed.
5. Wood  
One coat Prominent Wood Primer.
6. Mild steel  
Wash down with Prominent General Purpose Cleaner at a diluted ratio of 1:10 with water and then rinse with clean water. Make use of Prominent Multi Surface Etch Cleaner and abrasive pads. Ensure that a water break-free surface is obtained. Rinse well and allow drying before applying 1 coat Prominent Rust Primer.
7. Galvanised iron  
Remove fabricators pre-treated oil, oxidation or any other contamination with Prominent General Purpose Cleaner at a diluted ratio of 1:10 with water and then rinse with clean water. Make use of Prominent Multi Surface Etch Cleaner and abrasive pads. Ensure that a water break-free surface is obtained. Rinse well and allow drying before applying 1 coat Prominent Rust Primer.

## PROMINENT NEUKLAD ULTRA SHIELD

### SURFACE PREPARATION

Redecorating Exterior Facades:

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|---|--|
| 1. Sound gloss enamel paint             | Sand well to a matt finish, Clean with General Purpose Cleaner and water mixture diluted 1:10 and abrasive pad. Rinse with water and allow drying. Apply 1 coat Prominent Universal Undercoat. |
| 2. Sound matt and emulsion paint        | Clean with General Purpose Cleaner and water mixture diluted 1:10 and abrasive pad. Rinse with water and allow drying. Apply directly.   |
| 3. Chalky surfaces                      | High pressure water cleans the wall to remove the chalk back to sound painted surface. Allow drying before applying one coat Prominent Surface Restorer.                                       |
| 4. Poor condition surfaces              | Strip down and treat as new work.  |
| 5. Walls with moisture related problems | Consult Prominent Technical Service Department.  |

### LIMITATIONS:

1. The low VOC compliance is applicable on White, and colour mixed from Controlled White for batches manufactured from 1 September 2016 onwards.
2. Weather conditions during application should conform to the Standard. The surface temperature of the substrate should be between 10°C and 40°C and the relative humidity below 85%. Do not apply in freezing conditions, in windy weather, or if rain is likely.
3. Wet film thickness measurements (WFT) need to be done with a good quality WFT comb, immediately after application, and serves as a guide to verify WFT during application. Only dry film thickness (DFT) measurements can be used as part of the quality control process.
4. PROMINENT NEUKLAD ULTRA SHIELD cannot be used for interior applications.
5. To ensure a consistent appearance and colour; ensure that batch numbers on all the containers are the same. Where the batch numbers differ, intermix before use.
6. Spot touching up over large areas will be noticeable.
7. PROMINENT NEUKLAD ULTRA SHIELD can only be applied to quality undercoats and primers.
8. Cannot be over coated with non-flexible paints.
9. Spreading rate of 5m<sup>2</sup> per litre should not be exceeded.
10. When tinting dark colours from a clear tint base, be aware that the recommended dry film thickness (DFT) might be lower due to the volume of solid content. Therefore, additional coats may be necessary to achieve good opacity and an aesthetically pleasing finish. Bright and chromatic colours may require extra coats and premature fading could occur.

### SAFETY PRECAUTIONS:

1. Keep out of reach of children.
2. Ensure to maintain good ventilation during application and drying process.
3. In case of skin contact, wash with soap and water or a recognised skin cleaner. Avoid contact with eyes. In case of contact with eyes rinse immediately with running water and seek medical advice.
4. If product is ingested, drink plenty of water. Do not induce vomiting at any time. Seek medical advice.
5. Refer to the Safety Data Sheet (SDS) for detailed information about the product and transportation and classification criteria. SDS is available on [www.prominentpaints.co.za](http://www.prominentpaints.co.za) or from the Prominent Customer Service Department.
6. To avoid any risk of spillage, always transport in a secure upright position.

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### TINT BASE:

#### Characteristics:

1. The tint base containers are only filled to levels which are specific for each tint base to allow the calculated volume of colourants to be added in order to achieve the volume indicated on the container after tinting.
2. Tint bases and colourants are unfinished products which should not be used on their own.
3. Only once the prescribed colourants are added to the specific tint base will the finished product comply with the technical features and related information as set out in this TDS.
4. The calculated VOC compliance to 2,7g/L maximum is only applicable to product tinted from White Base.

#### Product Information:

Colourants to be used: Prominent Paints colourants are specifically formulated for use with Prominent Paints Stainer tinting system, which only uses Prominent supported formulations on Formula Pro software.

Tint Bases: White and Clear Base.

### DISCLAIMER:

The information contained herein is given in good faith and is meant merely as a guide for the specifier or user. It is gained from results obtained from our experience and tests conducted under controlled conditions. No warranty/guarantee is implied since the conditions of use, application method, substrate and cleanliness of the substrate are beyond Prominent control. For a surface specific specification contact the Prominent Customer Service Department for assistance. This issue supersedes all previous publications.

Important Note: Technology may change with time, necessitating changes to this Technical Data Sheet (TDS). It is the responsibility of the user to ensure that the latest TDS is being used for reference. Prominent Technical Data Sheets are available on [www.prominentpaints.co.za](http://www.prominentpaints.co.za) or from the Prominent Customer Service Department.

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